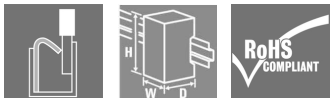
TOP 12VDC 48VDC0.1A

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Product image

Similar to illustration



- 1 NO contact
- Type: Triac (zero-cross switch), MOS-FET, Bipolar transistor
- 2 A DC, 0,1 A DC, 1 A AC output current
- Input voltages 5 V DC and 12 V DC with coloured marking: DC: blue

General ordering data

Version	TERMSERIES, Solid-state relay, 1 NO contact (Bipolar transistor), Rated control voltage: 12 V DC ±20 % , Rated switching voltage: 0...48 V DC, Continuous current: 100 mA, PUSH IN
Order No.	2618600000
Type	TOP 12VDC 48VDC0.1A
GTIN (EAN)	4050118670233
Qty.	10 pc(s).

Creation date April 16, 2021 5:05:08 AM CEST

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Technical data

Dimensions and weights

Depth	87.8 mm	Depth (inches)	3.457 inch
Height	89.4 mm	Height (inches)	3.52 inch
Net weight	29 g	Width	6.4 mm
Width (inches)	0.252 inch		

Temperatures

Storage temperature	-40 °C...70 °C	Operating temperature	-20 °C...60 °C
Humidity	5-95% relative humidity, T_u = 40°C, without condensation		

Probability of failure

MTTF	3,026 Years

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1

Rated data UL

Ambient temperature (operational), max.	60 °C	Connection cross-section AWG, min.	AWG 26
Connection cross-section AWG, max.	AWG 14	Type of conductor	rigid copper conductor, flexible copper conductor
Pollution severity level	2		

Control side

Coil voltage of the replacement relay	5 V DC	Coil voltage of the replacement relay deviating from the rated control voltage	Yes
Nominal control current	5 mA DC (±20 %)	Power rating	112 mW
Protective circuit	Rectifier	Pull-in/drop-out voltage, typ.	4.9 V / 4 V DC
Rated control voltage	12 V DC ± 20 %	Status indicator	Green LED

Load side

Continuous current	0.1 A	Leakage current	< 10 µA
Min. switching current	500 µA	Protective circuit, load side	Free-wheeling diode
Rated switching voltage	48 V DC	Short-circuit-proof	No
Switch-off delay	≤ 3 ms	Switch-on delay	≤ 0.4 ms
Voltage drop at max. load	≤ 1 V	max. switching frequency (DC control voltage)	10 Hz

Contact data

Contact type	1 NO contact (Bipolar transistor)

General data

Rail	TS 35
Test button	No
Colour	black

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UL94 flammability rating component	Component	Housing
	UL94 flammability rating	V-0
	Component	Retaining clip
	UL94 flammability rating	V-0
	Component	Pusher
	UL94 flammability rating	V-0

Insulation coordination

Clearance and creepage distances for control side - load side	≥ 5.5 mm	Dielectric strength for control side - load side	2.5 kV_{eff}
Dielectric strength to mounting rail	4 kV_{eff} / 1 Min.	Impulse withstand voltage	6 kV (1.2/50 µs)
Pollution severity	2	Protection degree	IP20
Rated voltage	300 V	Surge voltage category	III

Further details of approvals / standards

Standards	DIN EN 50178	Certificate No. (DNVGL)	TAA00001E5
Certificate no. (cULus)	E141197		

Connection data

Wire connection method	PUSH IN	Stripping length, rated connection	9 mm
Clamping range, rated connection	1.5 mm²	Clamping range, min.	0.14 mm²
Clamping range, max.	2.5 mm²	Wire connection cross section AWG, min.	AWG 26
Wire connection cross section AWG, max.	AWG 14	Wire cross-section, solid, min.	0.14 mm²
Wire cross-section, solid, max.	2.5 mm²	Wire cross-section, solid, min. (AWG)	AWG 26
Wire cross-section, solid, max. (AWG)	AWG 14	Wire connection cross section, finely stranded, min.	0.14 mm²
Wire connection cross section, finely stranded, max.	2.5 mm²	Wire cross-section, finely stranded, min. (AWG)	AWG 26
Wire cross-section, finely stranded, max. (AWG)	AWG 14	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.15 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	1.5 mm²	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.15 mm²
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	1.5 mm²	Twin wire-end ferrules, min.	0.5 mm²
Twin wire-end ferrules, max.	1 mm²	Blade size	0.4 x 2.0 mm

Classifications

ETIM 6.0	EC001504	ETIM 7.0	EC001504
ECLASS 9.0	27-37-16-04	ECLASS 9.1	27-37-16-04
ECLASS 10.0	27-37-16-04	ECLASS 11.0	27-37-16-04

Approvals

Approvals

ROHS	Conform
UL File Number Search	E141197

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Technical data

Downloads

Approval/Certificate/Document of Conformity	EU Konformitätserklärung / EU Declaration of Conformity
Engineering Data	STEP
User Documentation	Beipackzettel / Package Insert – multilingual
Brochure/Catalogue	Catalogues in PDF-format

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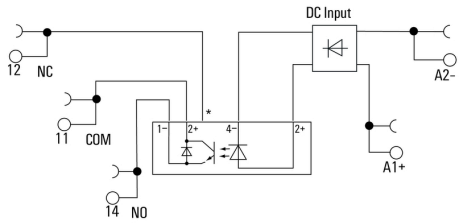
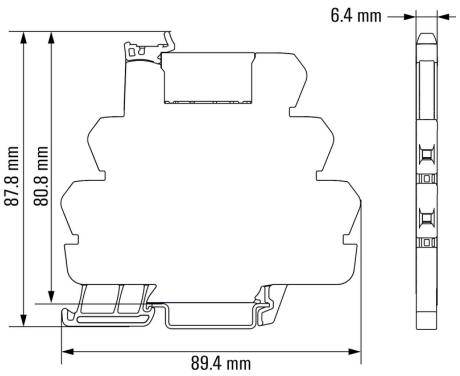
Drawings

Wiring diagram



*Contact is assembled in socket but not used with solid-state relays

Dimensional drawing



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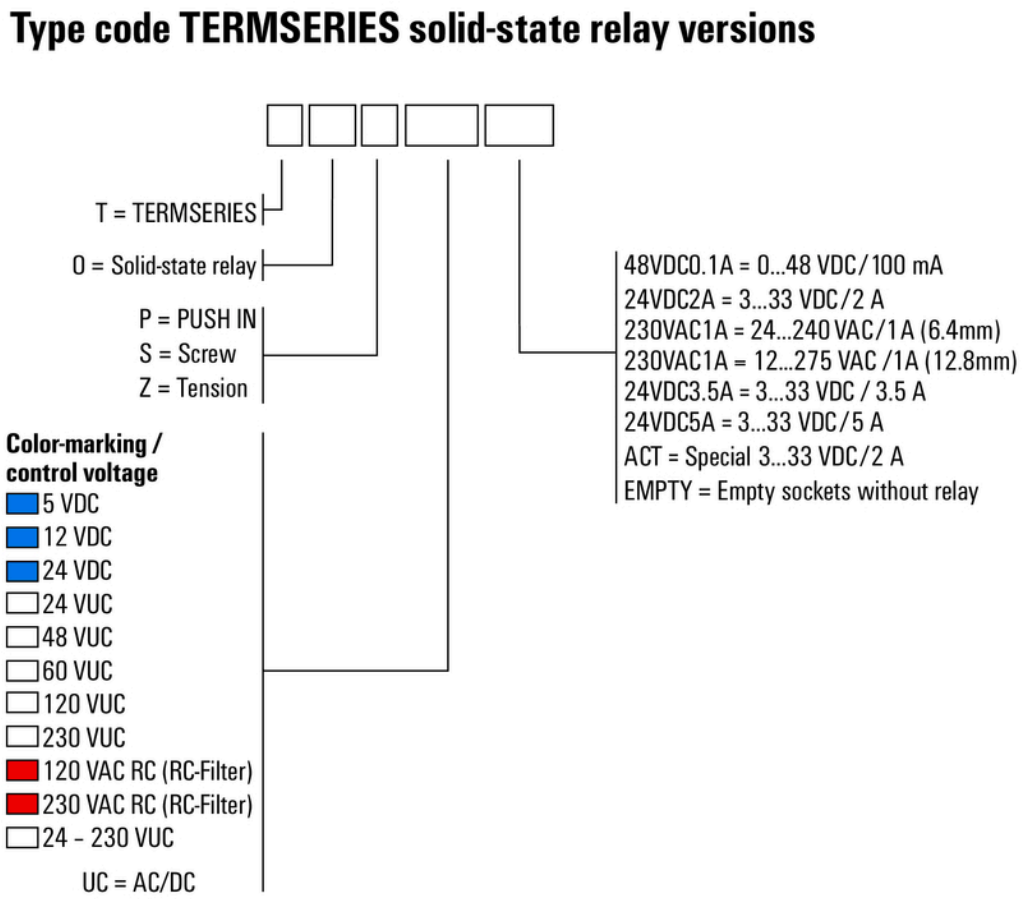
Miscellaneous



Type codes